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DMC-GF1

Micro System Digital Camera

- LUMIX G Micro System - Interchangeable Lens Digital Camera
- High Image Quality with 12.1-megapixel Live MOS Sensor & Venus Engine HD
- HD Movie AVCHD Lite & Motion Picture P Mode
- My Colour Mode
- iA Mode with Face Recognition
- LUMIX G 20mm/F1.7 ASPH. Based on Micro Four Thirds System Standard

LUMIX G Micro System Digital Camera GF1 - The World's Smallest, Lightest Interchangeable Lens Camera with Artistic Flat Design

TYPE

Camera Type	Digital interchangeable lens system camera
Recording media	SD memory card, SDHC memory card
Image sensor size	17.3 x 13.0 mm (in 4:3 aspect ratio)
Mount	Micro Four Thirds mount

IMAGE SENSOR

Type	Live MOS Sensor
Total pixels	13.1 Megapixels
Camera effective pixels	12.1 Megapixels
Colour filter	Primary colour filter
Dust reduction system	Supersonic wave filter

RECORDING SYSTEM

Recording file format	Still Image: JPEG(DCF, Exif 2.21), RAW, DPOF compatible Still Image with Audio: JPEG(DCF, Exif 2.21) + QuickTime Motion Image: AVCHD Lite / QuickTime Motion JPEG
Aspect ratio	4:3, 3:2, 16:9, 1:1

File size(Pixels)

Still Image	[4:3] 4000 x 3000(L), 2816 x 2112(M), 2048 x 1536(S) [3:2] 4000 x 2672(L), 2816 x 1880(M), 2048 x 1360(S)

Award

2009-09-10T17:47:00

DMC-GF1, Amateur Photographer, September 2009

Award

2009-10-12T11:41:00

DMC-GF1, Photography Blog, Highly Recommended Award, October 2009

Award

2009-10-16T14:55:00

DMC-GF1, DP Review, Highly Recommended Award, October 2009

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	[16:9] 4000 x 2248(L), 2816 x 1584(M), 1920 x 1080(S) [1:1] 2992 x 2992(L), 2112 x 2112(M), 1504 x 1504(S)
Motion Image	Motion JPEG [4:3] QVGA : 320 x 240, 30fps / VGA : 640 x 480, 30fps [16:9] WVGA : 848 x 480, 30fps [HD] 1280 x 720, 30fps AVCHD Lite NTSC:[HD] 1280 x 720, 60p (sensor output is 30fps)(SH: 17Mbps, H: 13Mbps, L: 9Mbps) PAL:[HD] 1280 x 720, 50p (sensor output is 25fps)(SH: 17Mbps, H: 13Mbps, L: 9Mbps)
Continuous recordable time (Motion images)	AVCHD Lite with picture quality set to [SH]: Approx. 210 min with H-H020 / Approx. 170 min with H-FS014045 Motion JPEG with picture quality set to [HD]: Approx. 210 min with H-H020 / Approx. 170 min with H-FS014045
Actual recordable time (Motion images)	AVCHD Lite with picture quality set to [SH]: Approx. 110 min with H-H020 / Approx. 100 min with H-FS014045 Motion JPEG with picture quality set to [HD]: Approx. 110 min with H-H020 / Approx. 100 min with H-FS014045
Image quality	RAW, RAW+Fine, RAW+Standard, Fine, Standard
Colour space	sRGB, Adobe RGB

AUTO FOCUS

Type	Contrast AF system
Focusing mode	AFS/AFC/MF
AF mode	Face detection / AF Tracking / 23-area-focusing / 1-area-focusing
AF detective range	EV 0-18 (F3.5 lens, ISO 100)
AF assist lamp	yes
AF lock	AF/AE LOCK button or Shutter button halfway pressed in AFs mode
Others	Pre AF(Quick AF/Continuous AF),AF+MF, MF Assist(5x, 10x)

EXPOSURE CONTROL

Light metering system	144-zone multi-pattern sensing system
Light metering mode	Intelligent Multiple/Center Weighted/Spot
Metering range	EV 0-18 (F2.0 lens, ISO 100)
Exposure mode	Program AE, Aperture Priority AE, Shutter Priority AE, Manual
ISO sensitivity	Auto / 100 / 200 / 400 / 800 / 1600 / 3200 / Intelligent ISO
Exposure compensation	1/3EV Step ±3EV
AE lock	AF/AE LOCK button or Shutter button halfway pressed
AE bracket	3,5,7 frame, in 1/3 or 2/3 EV Step, ±2 EV

WHITE BALANCE

White balance	Auto / Daylight / Cloudy / Shade / Halogen / Flash / White Set 1,2 / Color temperature setting
White balance adjustment	Blue/amber bias, Magenta/green bias
Color temperature setting	2500-10000K in 100K
White balance bracket	3 exposures in blue/amber axis or in magenta/green axis

Award
2009-11-02T14:01:00
DMC-GF1, Trusted Reviews, Editor's Choice Award, November 2009

Award
2009-12-01T17:37:00
DMC-GF1, What Digital Camera, December 2009

Award
2009-11-09T17:26:00
DMC-GF1, Pocket Lint, Hot Product Award, November 2009

Award
2009-11-17T17:10:00
DMC-GF1, ephotozine, Editor's Choice Award, November 2009

Award
2009-11-27T11:04:00
DMC-GF1, Camera Labs, Highly Recommended Award, November 2009

Award
2009-11-30T10:23:00
DMC-GF1, Trusted Reviews, Best Bridge Camera - 1st Place, November 2009

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SHUTTER SYSTEM

Type	Focal-plane shutter
Shutter speed	Still Images: 1/4000 ~ 60 and Bulb (up to approx. 4minutes)
Self timer	2sec / 10sec / 10sec, 3 images
Remote control	Remote control with bulb function by DMW-RSL1 (Optional)

SCENE MODE

Movie SCN mode	Portrait/Soft Skin/Scenery/Architecture/Sports/Flower/Food/Objects/ Low Light/Party/Sunset (Activated by selecting Still Image SCN mode then pressing Movie Button. Still Image SCN modes without corresponding Movie SCN mode is recorded in Normal mode or other related mode.)
Still Image SCN mode	Portrait/Soft Skin/Scenery/Architecture/Sports/Peripheral Defocus/ Flower/Food/Objects/Night Portrait/Night Scenery/Illuminations/Baby 1,2/Pet/Party/Sunset
MY COLOR MODE	Expressive/Retro/Pure/Elegant/Monochrome/Dynamic Art/Silhouette/ Custom(Color/Brightness/Saturation/ adjustable)

BURST SHOOTING

Burst speed	3 frames/sec (High speed) or 2 frames/sec (Low speed)
Number of recordable images	7 images (when there are RAW files with the particular speed) Unlimited consecutive shooting (when there are no RAW files) (depending on memory card size, battery power, picture size, and compression)

BUILT-IN-FLASH

Type	TTL Built-in-Flash, GN6.0 equivalent (ISO 100 ·m), Built-in Pop-up
Built-in flash(Mode)	Auto, Auto/Red-eye Reduction, Forced On, Forced On/Red-eye Reduction, Slow Sync., Slow Sync./Red-eye Reduction, Forced Off
X-Sync(Synchronization) speed	Less than 1/160 second
Flash output adjustment	1/3EV Step ±2EV
Flash synchronization	1st. Curtain Sync, 2nd Curtain Sync.
Hot shoe	TTL Auto with FL220/FL360/FL500(Optional)

LCD MONITOR

Type	Low temperature Polycrystalline TFT LCD
Monitor size	3.0inch / 3:2 Aspect / Wide viewing angle
Pixels	460K dots
Filed of view	Approx. 100%
Monitor adjustment	Brightness (7 levels), Color (7levels)
LCD mode	Off / Auto Power LCD / Power LCD
OSD language	Japanese, English, German, French, Italian, Spanish

LIVE VIEW

Digital zoom	2x, 4x
Extra optical zoom	Max.2x (Not effective with L size recording. Magnification ratio depends on the recording pixels and aspect ratio.)

Award
2009-11-30T10:26:00
DMC-GF1, Trusted Reviews, Product of the Year - 1st Place, November 2009

Award
2009-12-03T11:31:00
DMC-GF1, Digital Photographer, Digital Photographer Innovation Award, issue 90

Award
2009-12-23T16:55:00
DMC-GF1, Stuff.tv, Hot Buy Award, December 2009

Award
2010-01-13T10:41:00
DMC-GF1, Technofile Awards 2010, Best Digital Compact Camera, January 2010

Award
2010-01-20T09:51:00
DMC-GF1, Digital Photographer, Innovation Award, issue 91

Award
2010-01-20T09:52:00
DMC-GF1, What Digital Camera, Micro System Camera 2009 Award, January 2010

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Other functions	Guide Lines (3 patterns) Real-time Histogram

FILM MODE

Colour	Standard / Dynamic / Nature / Smooth / Nostalgic / Vibrant
Black and white	Standard / Dynamic / Smooth
Others	My Film1 / My Film2 / Multi Film

PLAYBACK

Playback mode	Normal playback, 30-thumbnail display, 12-thumbnail display, Calendar display, Zoomed playback (16x Max.), Slideshow, Playback Mode (Normal/Picture/AVCHD Lite/Motion JPEG/Category/Favorite), Title Edit, Text Stamp, Resize, Trimming, Aspect Conversion, Rotate, Rotate Display, Print Set, Protect, Audio Dubbing

PROTECTION / ERASE

Protection	Single / Multi or Cancel
Erase	Single / Multi / All / Except Favorite

DIRECT PRINT

Print	PictBridge compatible(Print size, Layout, Date setting is selectable)

INTERFACE

HDMI	miniHDMI TypeC Video: Auto / 1080i / 720p / 480p (576p in PAL system) Audio: Dolby® Digital Creator
USB	USB 2.0 High Speed
Speaker	YES
Audio video output	Monaural Type, NTSC/PAL, NTSC only for North America *Check the website of the Panasonic sales company in your country or region for details on the products that are available in your market.
External microphone terminal	NO
Built-in microphone	Monaural, Wind-cut: Off / Low / Standard / High
Remote	φ2.5mm.

GENERAL DATA

Power

Battery	ID-Security Li-ion Battery Pack (7.2V, 1250mAh) (Included) Battery Charger/AC Adapter (Input: 110-240V AC, DC Cable is required)
Battery life	Still Images CIPA Standard : Approx. 380 images(LCD) with LUMIX G 20mm/F1.7 ASPH. Motion Images Approx. 210 minutes (LCD) Recording time capacity in AVCHD SH mode

Dimensions [mm]

Width	119.0
Height	71.0
depth	36.3

Award

2010-02-01T10:37:00

DMC-GF1, Photography Monthly, Greatest Leap Forward Award, February 2010

Award

2010-02-01T14:47:00

DMC-GF1, Amateur Photographer Awards 2010, Entry Level Camera of the Year 2010

Award

2010-02-04T15:38:00

DMC-GF1, Ephotozine, Recommended Award, February 2010

Award

2010-03-01T09:36:00

DMC-GF1, What Digital Camera, Recommended Award, March 2010

Award

2010-05-24T16:35:00

DMC-GF1, Digital Photographer, Editor's Choice Award, issue 96

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Weight	Approx. 285g / 10.05 oz (Body only)

Operating Condition

Operating temperature	0 to 40 (32°F to 104°F)
Operating humidity	10% to 80%

Standard Accessories

Software	PHOTOfunSTUDIO 4.0 HD Edition SILKYPIX® Developer Studio 3.0 SE USB Driver
Standard accessories	Battery Charger/AC Adapter, Battery Pack, Body Cap, AV Cable, USB Connection Cable, AC Cable, Shoulder Strap, CD-ROM

Interchangeable Lens-1

Lens Construction	7 elements in 5 groups (2 Aspherical lenses)
Mount	Micro Four Thirds mount
Optical Image Stabilizer	No
Focal Length	f=20mm (35mm camera equivalent 40mm)
Aperture Type	7 diaphragm blades / Circular aperture diaphragm
Aperture	F1.7
Minimum Aperture	F16
Closest Focusing Distance	0.2m / 0.66ft
Maximum magnification	Approx. 0.13x / 0.25x (35mm camera equivalent)
Diagonal Angle of View	57°

GENERAL DATA

Filter Size	φ46mm / 1.81 in
Max. Diameter	φ63mm / 2.48 in
Overall Length	Approx. 25.5mm / 1.00 in (from the tip of the lens to the base side of the lens mount)
Weight [g]	Approx. 100g
Weight [oz]	3.53oz
Standard Accessory	Lens Cap, Lens Rear Cap, Lens Storage Bag

Interchangeable Lens-2

Award

2010-07-01T10:01:00

DMC-GF1, Digital SLR Photography, Highly Rated Award, July 2010

Award

2010-06-25T14:47:00

DMC-GF1, Macworld, Best Digital Camera, June 2010

Award

2010-06-01T14:34:00

DMC-GF1, Which?, Digital Cameras : Best Buy, June 2010

H-FS014045E

H-FS045200E

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H-VS014140

H-F007014

H-F007014E

H-ES045E

H-H020E

L-ES014050E

L-X025E

L-RS014050E

L-RS014150E

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DMW-MA1E

DMW-MA2ME

DMW-MA3RE

DMW-LPL46E

DMW-FL500E

DMW-FL360E

DMW-FL220E

DMW-RSL1E

DMW-DCC3E

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DMW-SSTG1-A

DMW-SSTG1-C

DMW-SSTG1-R

DMW-SSTG1E-A

DMW-SSTG1E-C

DMW-SSTG1E-K

DMW-SSTG1E-R

DMW-SSTG2

DMW-SSTG2E-W

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DMW-SSTG3

DMW-SSTG3E-T

DMW-CZ18E

DMW-CZ18K

RP-CDHM15E-K